

Figures

TABLE 10.1

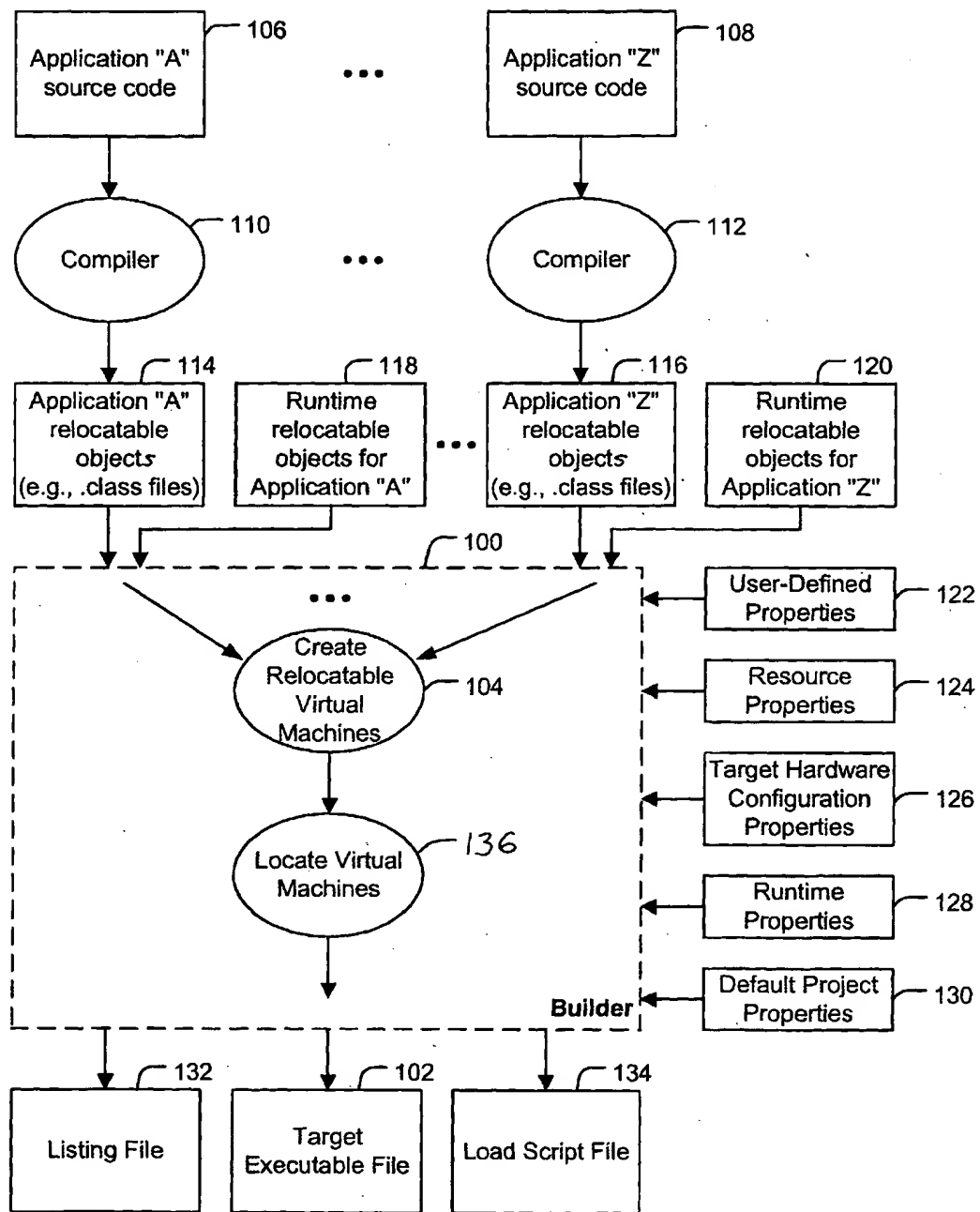


Fig. 1

```
graph TD
    200{User-Defined Parameter?} -- Y --> 202[Return User-Defined Parameter]
    200 -- N --> 204{Any installed resources?}
    204 -- Y --> 206{Does any installed Resource specify the Parameter?}
    204 -- N --> 214{Do Target HW configuration properties specify the parameter?}
    206 -- Y --> 208[Return Resource Specified Parameter]
    206 -- N --> 214
    214 -- Y --> 216[Return HW Configuration Specified Parameter]
    214 -- N --> 218{Do Runtime properties specify the parameter?}
    218 -- Y --> 220[Return Runtime Specified Parameter]
    218 -- N --> 222[Return a default value for the parameter]
```

Flowchart illustrating a process for returning a parameter value (FIG. 2):

- Decision 200: User-Defined Parameter?
 - If Yes (Y), proceed to 202: Return User-Defined Parameter.
 - If No (N), proceed to 204.
- Decision 204: Any installed resources?
 - If Yes (Y), proceed to 206.
 - If No (N), proceed to 214.
- Decision 206: Does any installed Resource specify the Parameter?
 - If Yes (Y), proceed to 208: Return Resource Specified Parameter.
 - If No (N), proceed to 214.
- Decision 214: Do Target HW configuration properties specify the parameter?
 - If Yes (Y), proceed to 216: Return HW Configuration Specified Parameter.
 - If No (N), proceed to 218.
- Decision 218: Do Runtime properties specify the parameter?
 - If Yes (Y), proceed to 220: Return Runtime Specified Parameter.
 - If No (N), proceed to 222: Return a default value for the parameter.

Fig. 2

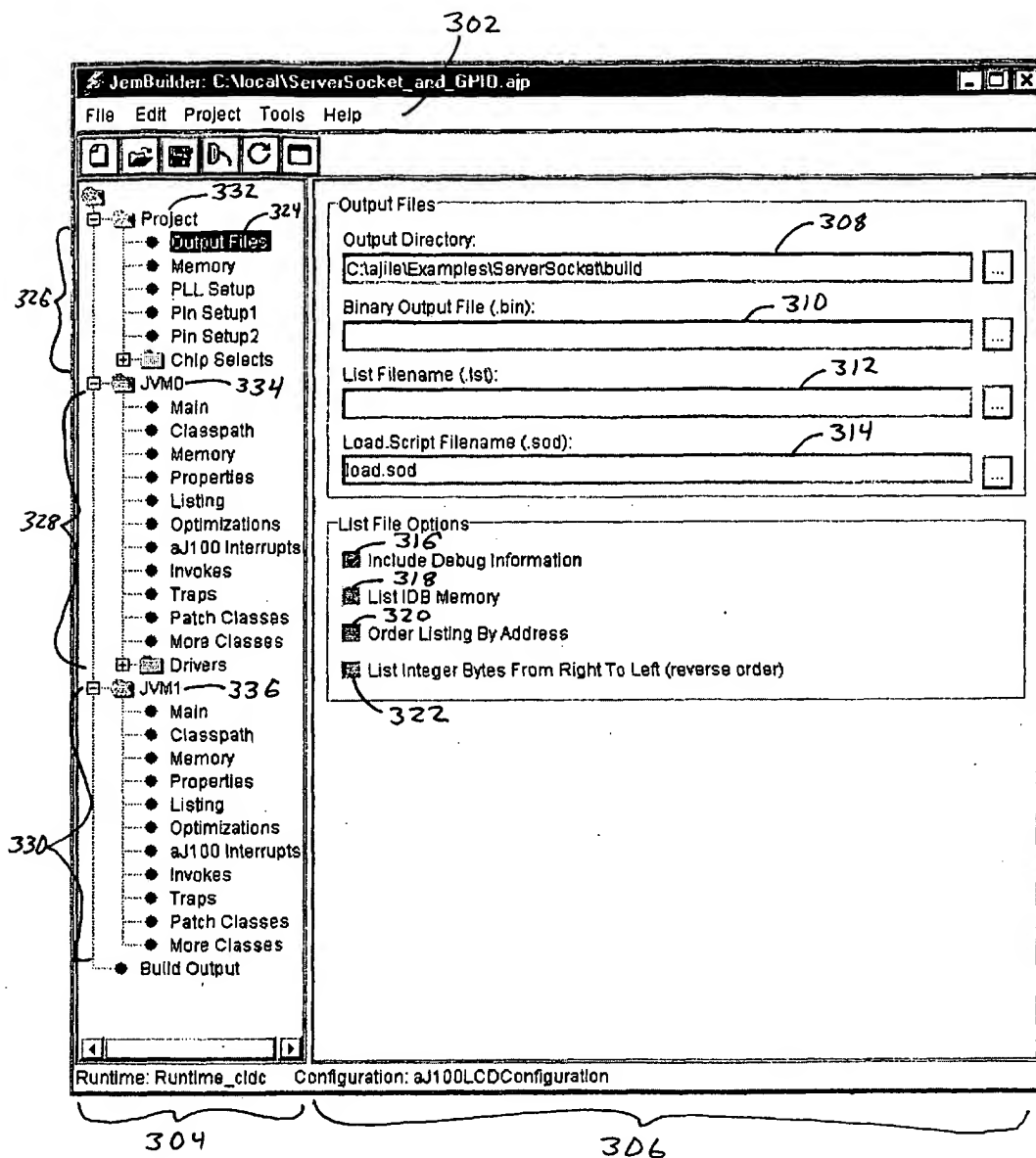


Fig. 3

Downloaded from www.industrydocuments.ucsf.edu

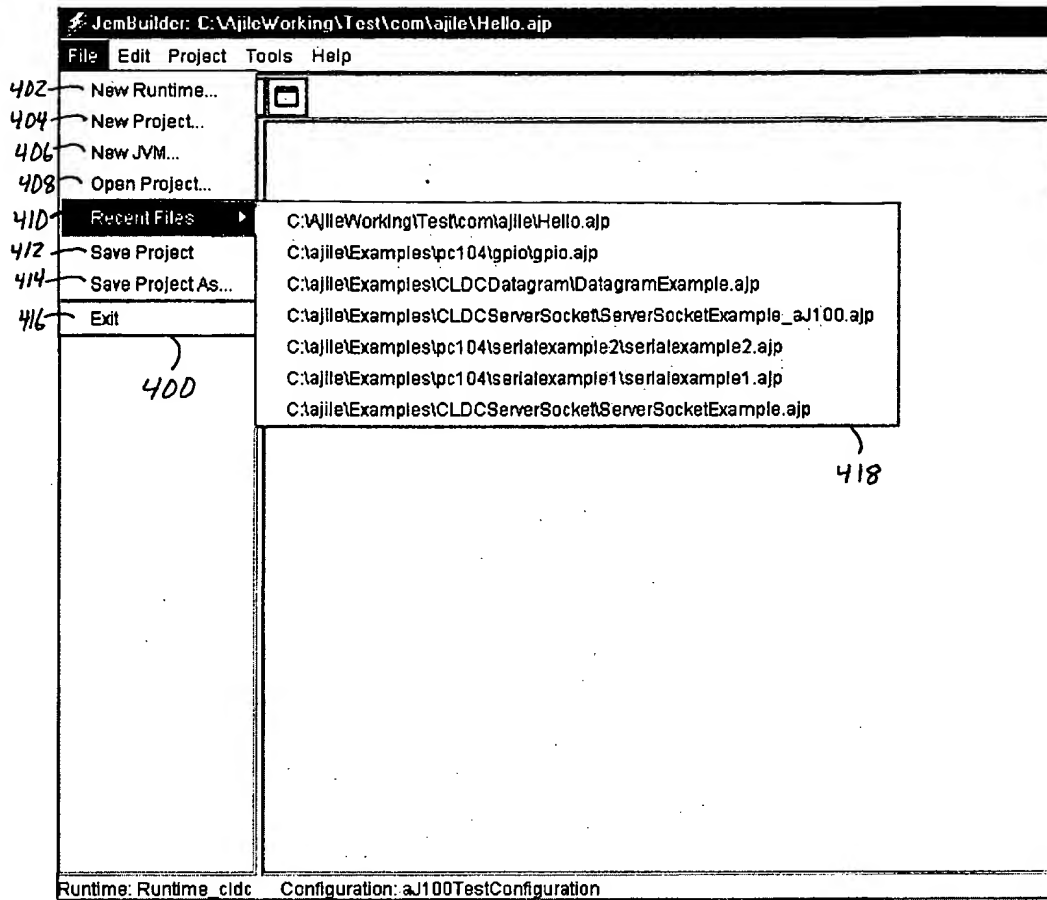


Fig. 4

Downloaded from www.scribd.com

New JVM step 1 of 4

Name

A Project can contain 1 or more JVM's. Each JVM runs independently, has it's own memory, resources, and main method.
Each JVM has a name that is referenced in the navigation tree
Example: SystemJvm
Enter the name of the new JVM:

JVM2

Next > Cancel

502

500

Fig. 5

New JVM step 2 of 4

Main Class Name

Each JVM contains one entry point or main method. The package name must be specified followed by a '.' and the class name. This is called the fully qualified class name.
Example: com.ajile.example.Example

Enter the fully qualified class name:

GPIONonitor

< Previous Next > Cancel

602

600

Fig. 6

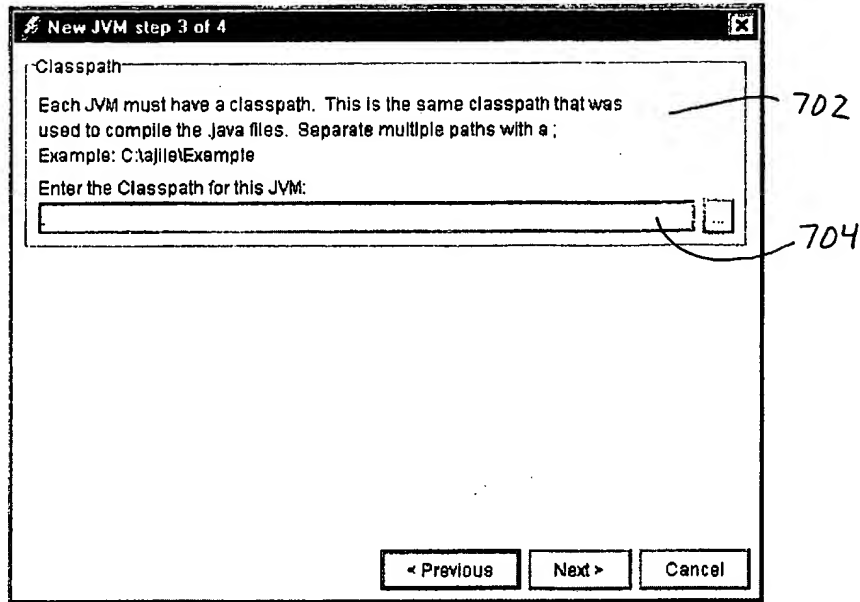


Fig. 7

700

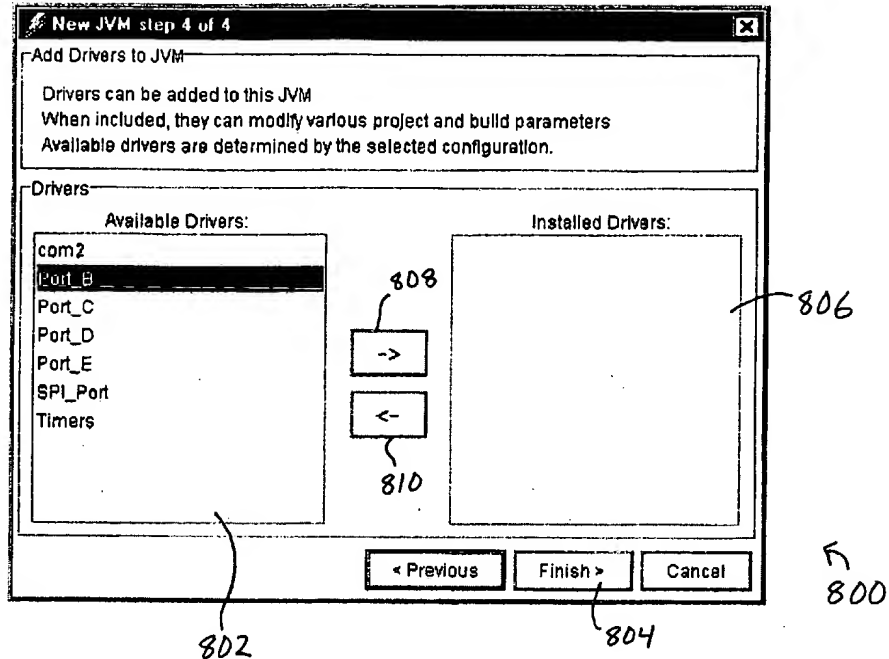


Fig. 8

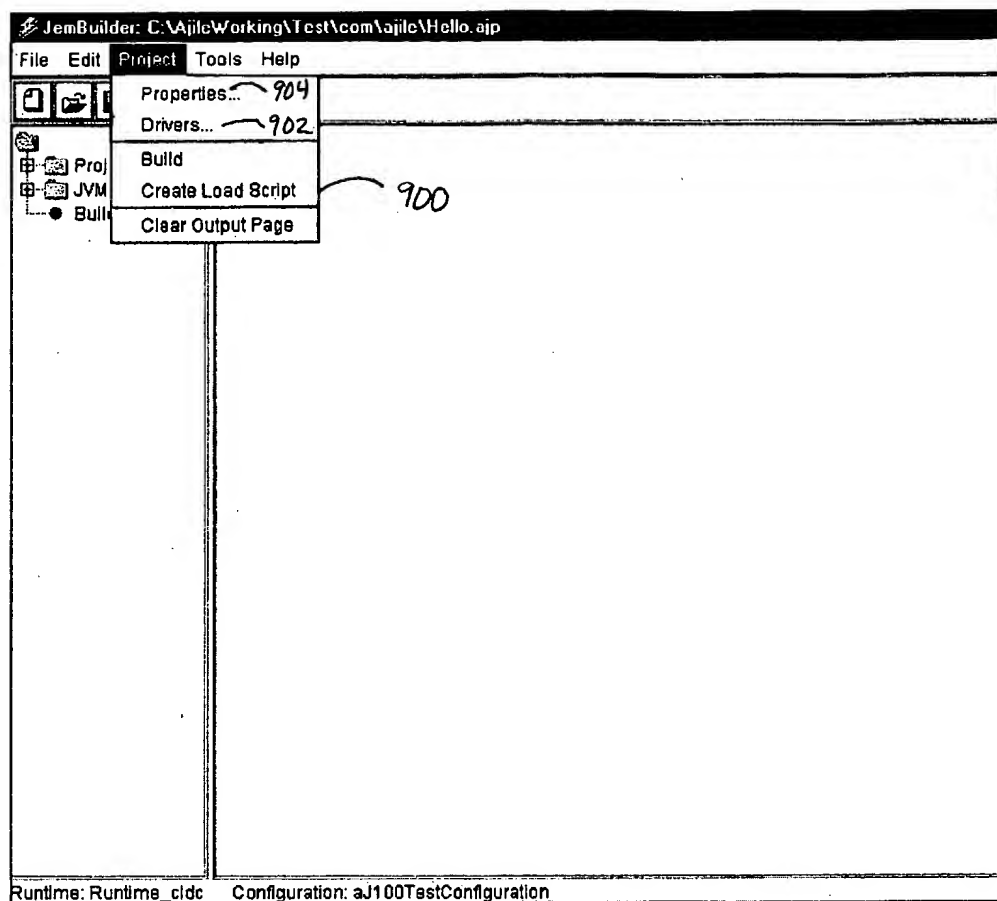


Fig. 9

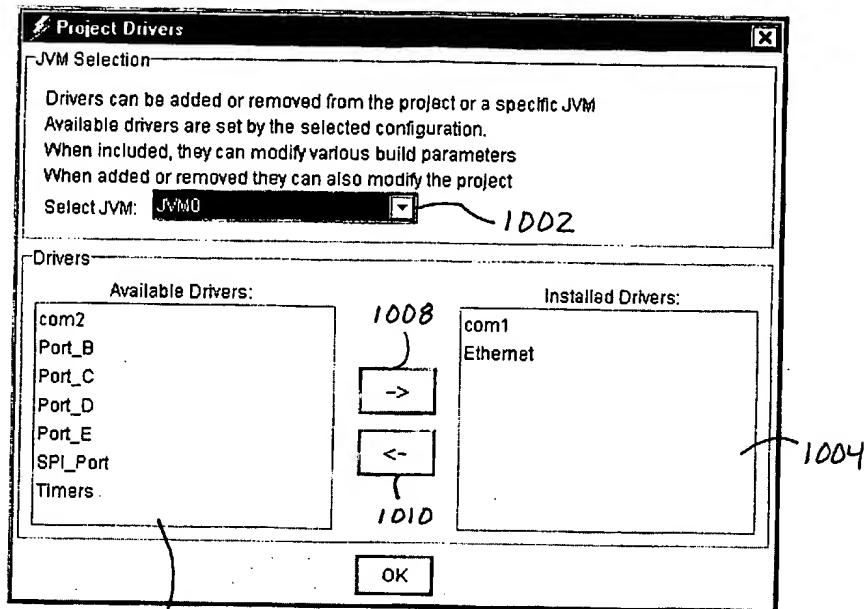


Fig. 10

~1000

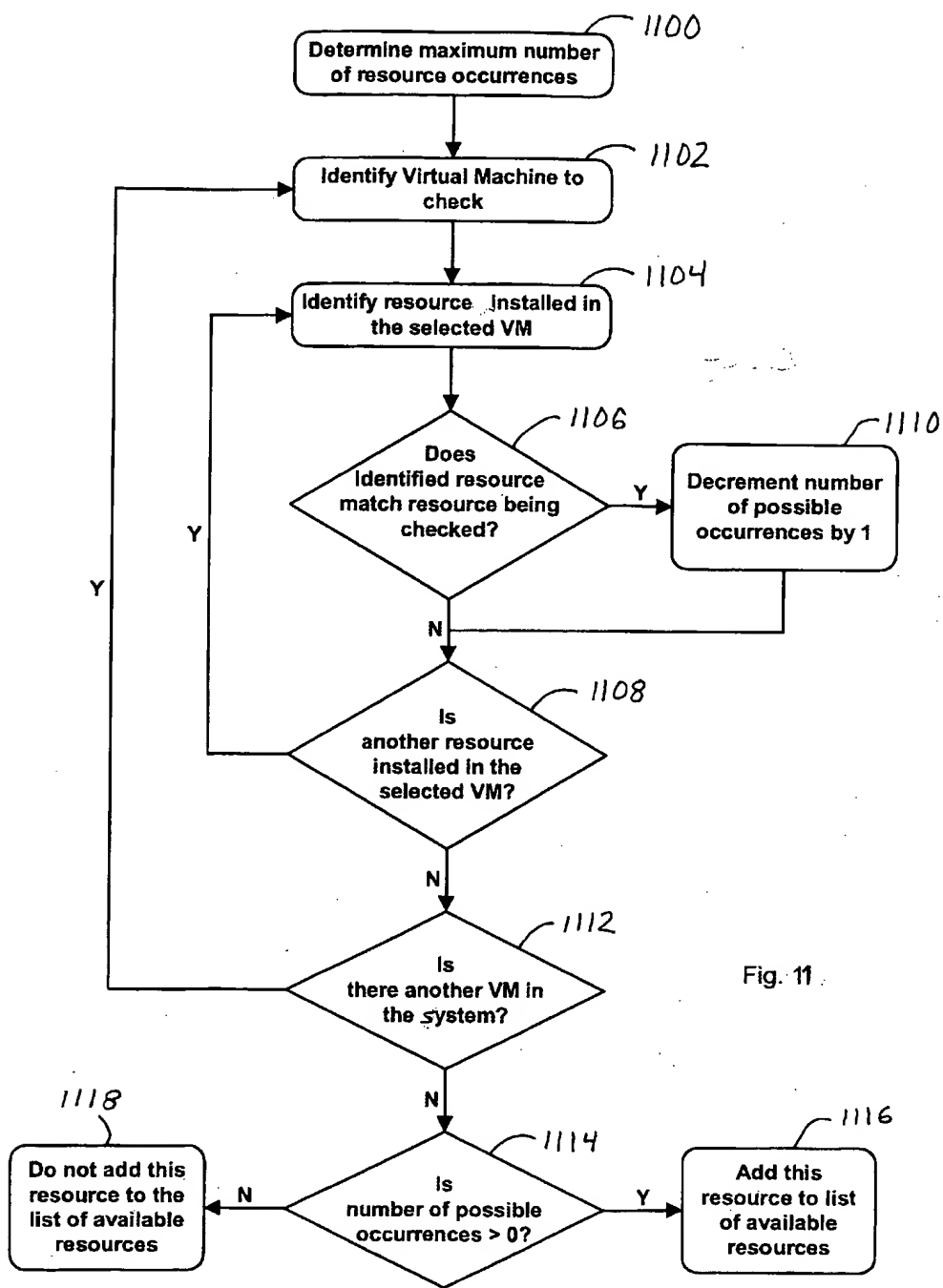


Fig. 11

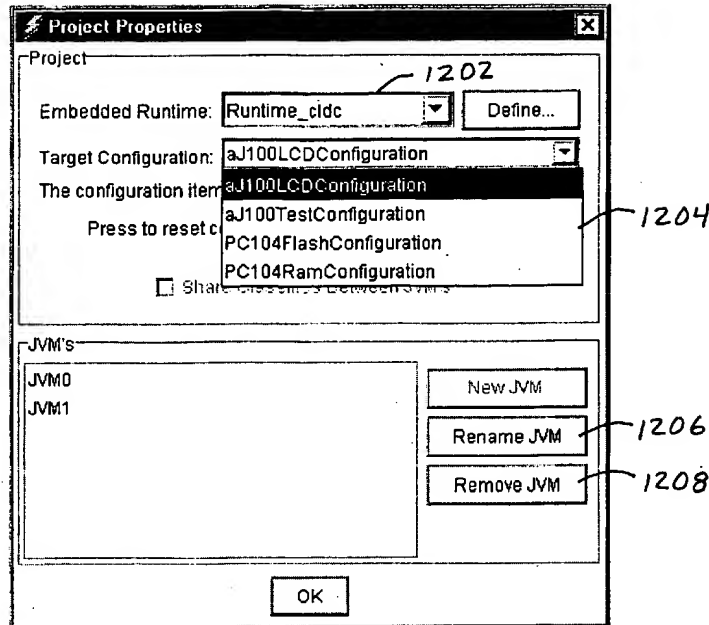


Fig. 12

1200

1400E92E560

JemBuilder: C:\local\ServerSocket_and_GPIO.ajp

File Edit Project Tools Help

Project

- Output Files
- Memory
- PLL Setup
- Pin Setup1
- Pin Setup2
- Chip Selects
- JVM0
 - Main
 - Classpath
 - Memory
 - Properties
 - Listing
 - Optimizations
 - aj100 Interrupts
 - Invokes
 - Traps
 - Patch Classes
 - More Classes
- Drivers
- JVM1
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Phased Locked Loop Enable

☒ Enable PLL operation

The lock timeout can be used to bypass the PLL for a number of clock cycles, until the PLL stabilizes. The input clock will be used for the specified number of input clocks, then a switch is made to the PLL output. If the lock timeout is disabled, the PLL output will be used all of the time.

3,670,016 Number of Cycles to PLL Driven Clock

Clock Frequency Calculation

10000000 Enter your input Clock Frequency in Hz

10 Select the PLL Multiplier

1 Select the PLL Divider

100000000 Internal Clock Frequency in Hz

49 Internal Time Prescaler

Clock Out Frequency

The Clock Out pin can be disabled, or its frequency divided down

2 Select the Clock Output Divider

50000000 Clock Out Frequency in Hz

Runtime: Runtime_cldc Configuration: aj100LCDConfiguration

1402

Fig.14

1400

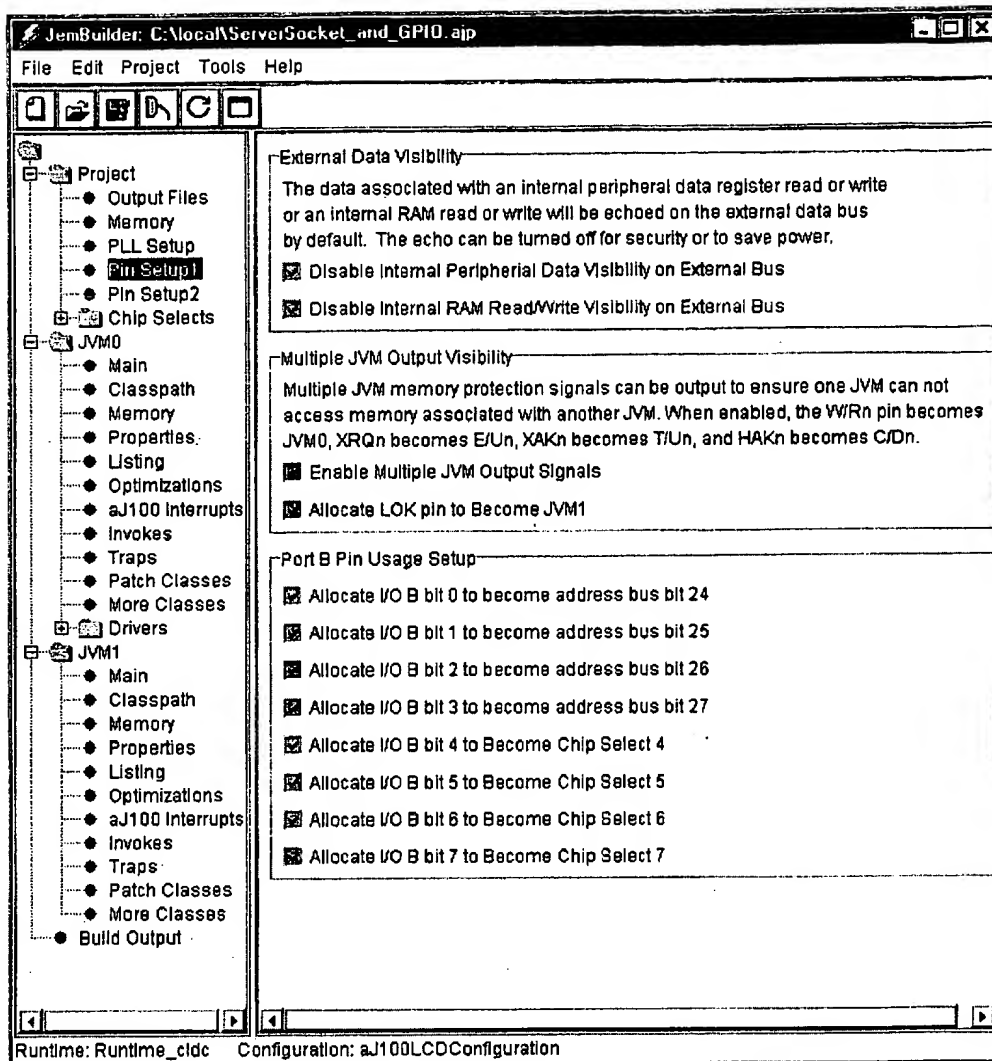


Fig. 15

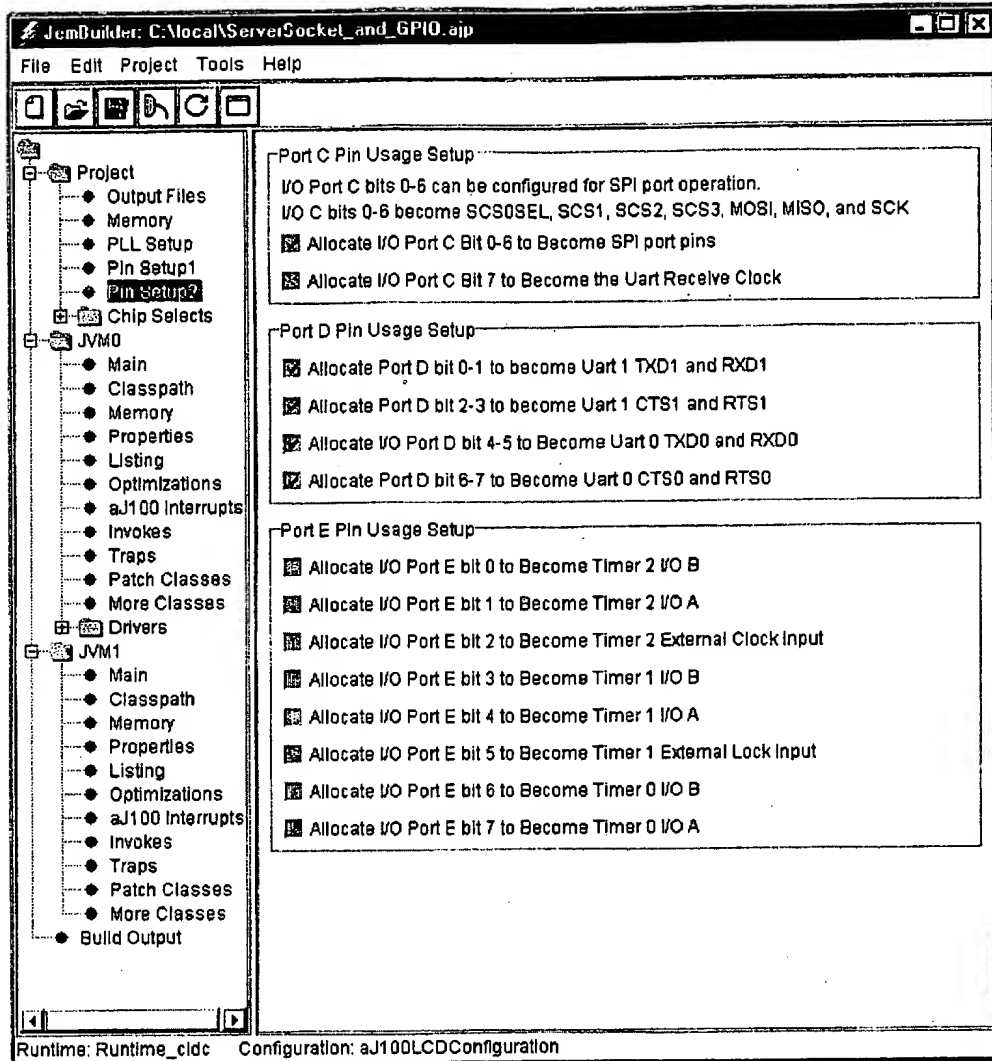


Fig. 16

1700: 09213950

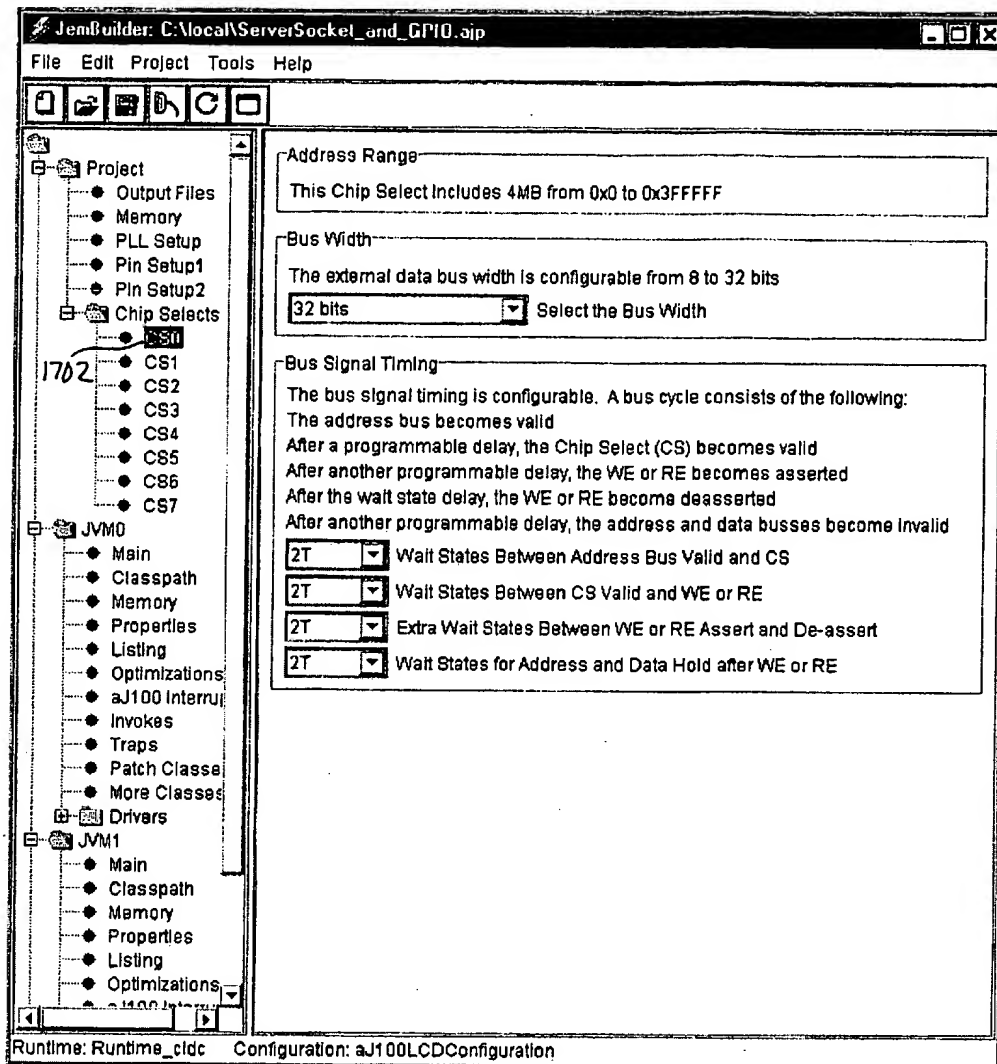


Fig. 17

1700

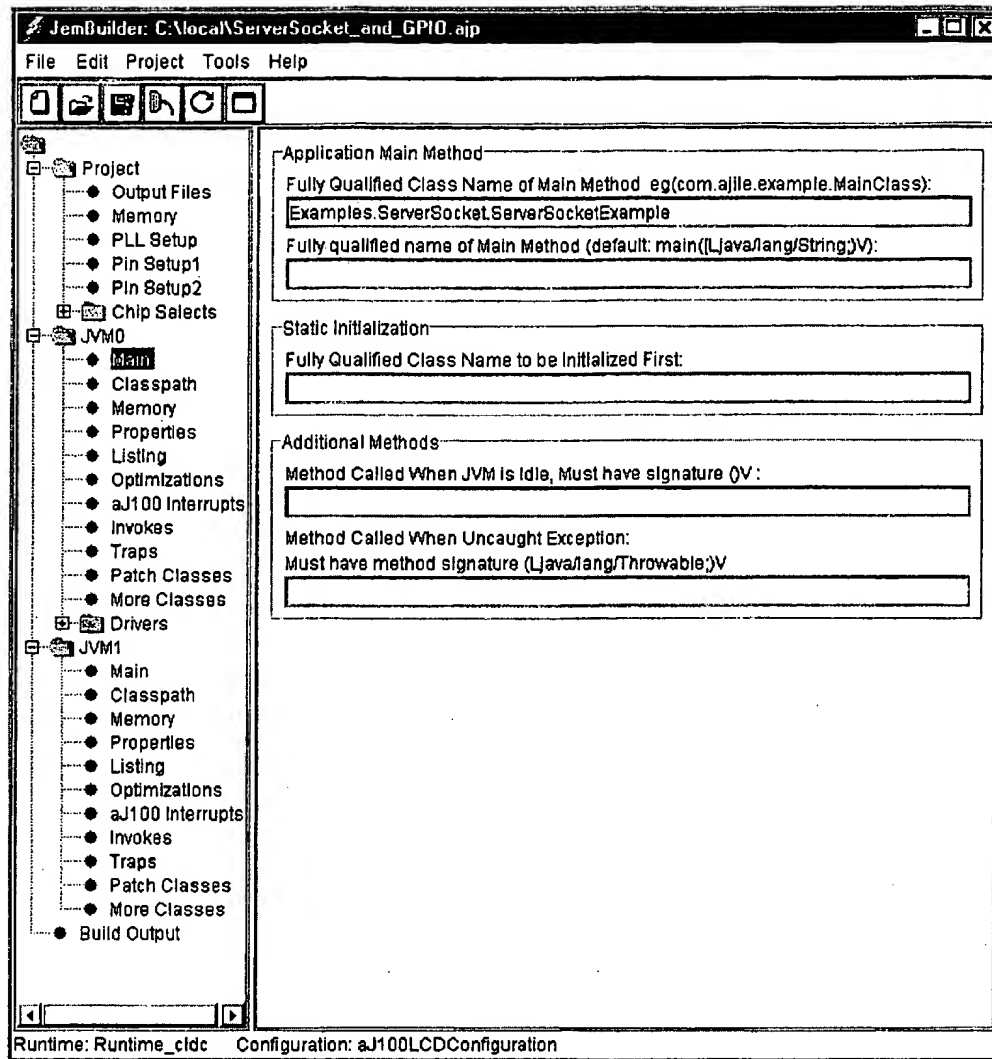


Fig. 18

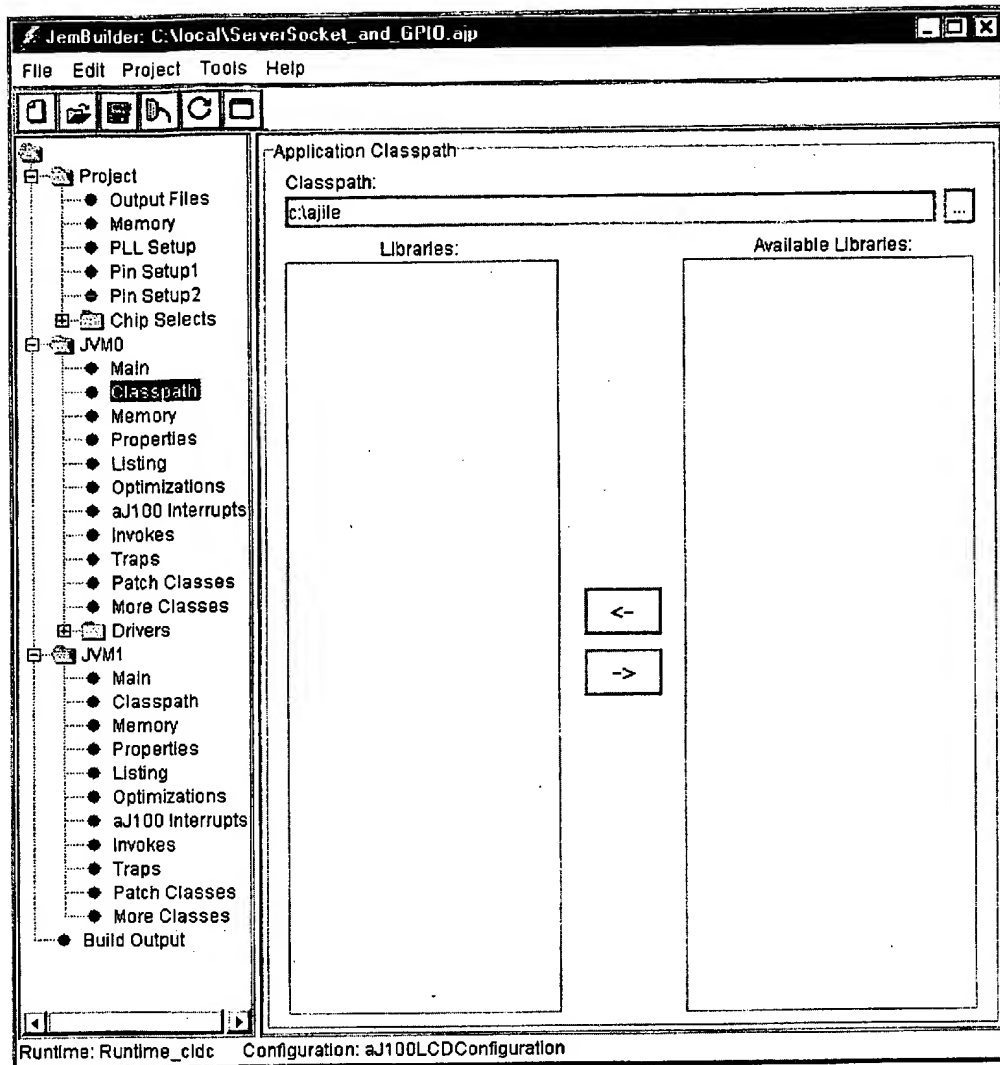


Fig. 19

106060-03218960

JemBuilder: C:\local\ServerSocket_and_GPIO.ajp

File Edit Project Tools Help

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JVM Placement

☒ Locate JVM in next available memory Default

RAM (Data) Start Address:

RAM (Data) Size (bytes):

ROM (Code) Start Address:

ROM (Code) Size (bytes):

Memory Allocations (bytes)

Initial Heap Size:

Exec Heap Size:

Main Thread Stack Size:

New Thread Stack Size:

Idle Thread Stack Size:

Executive Stack Size:

Abort Stack Size:

Thread Control Block Size:

Runtime: Runtime_cldc Configuration: aj100LCDConfiguration

Fig. 20

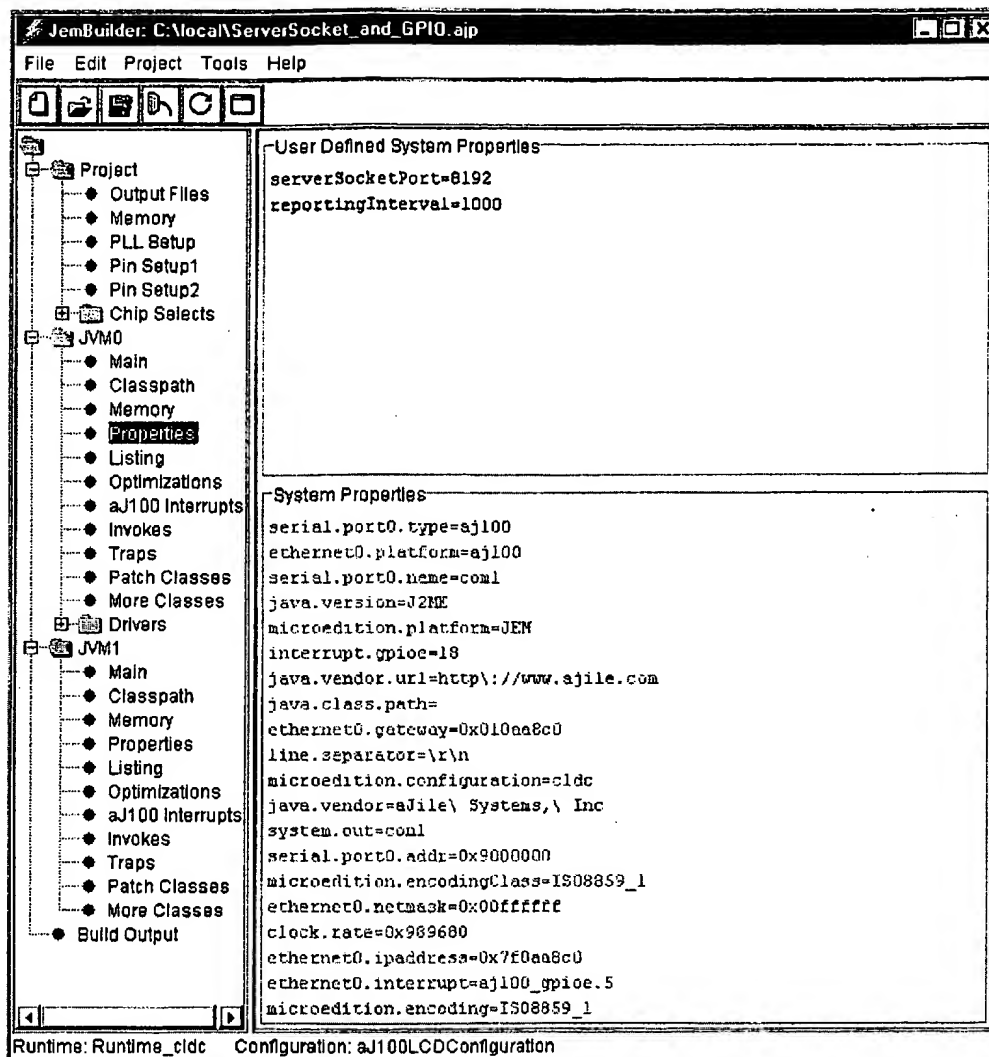


Fig. 21

TOP SECRET 83213300

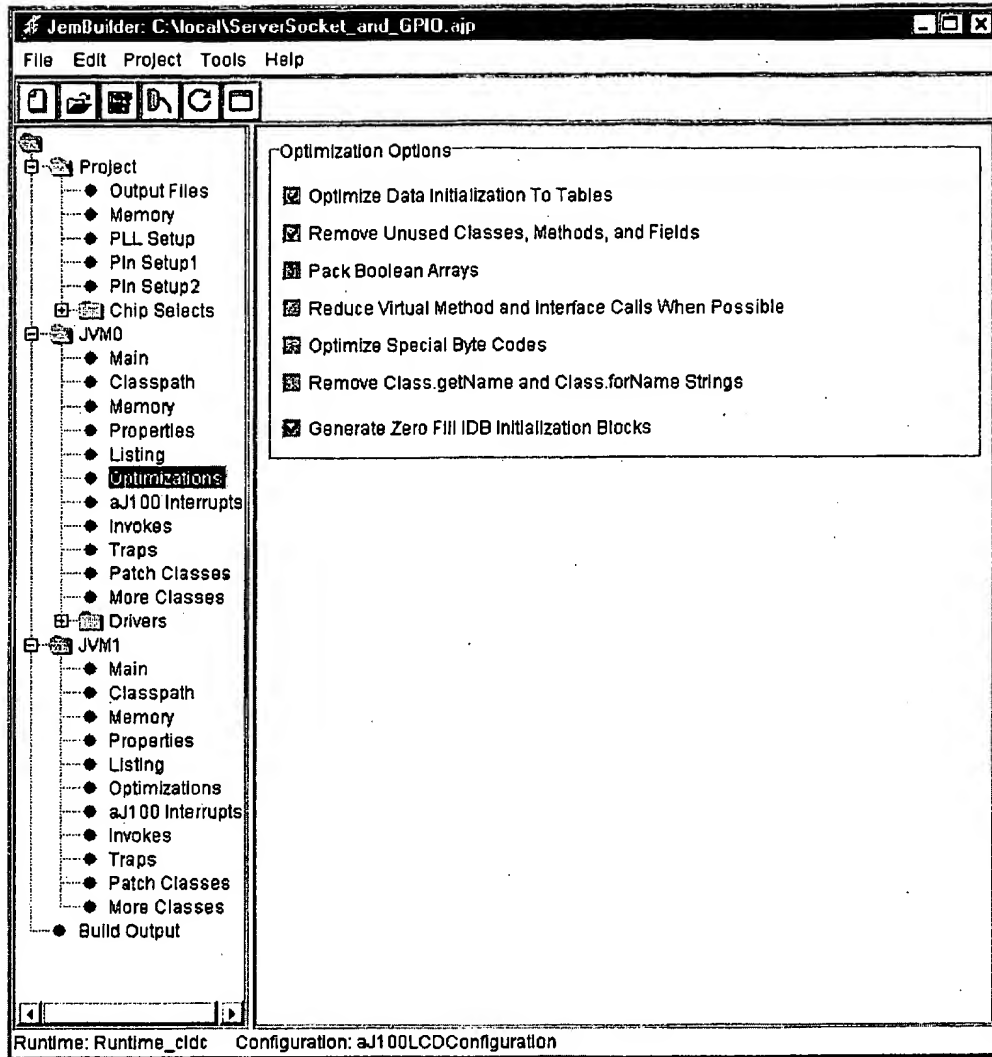
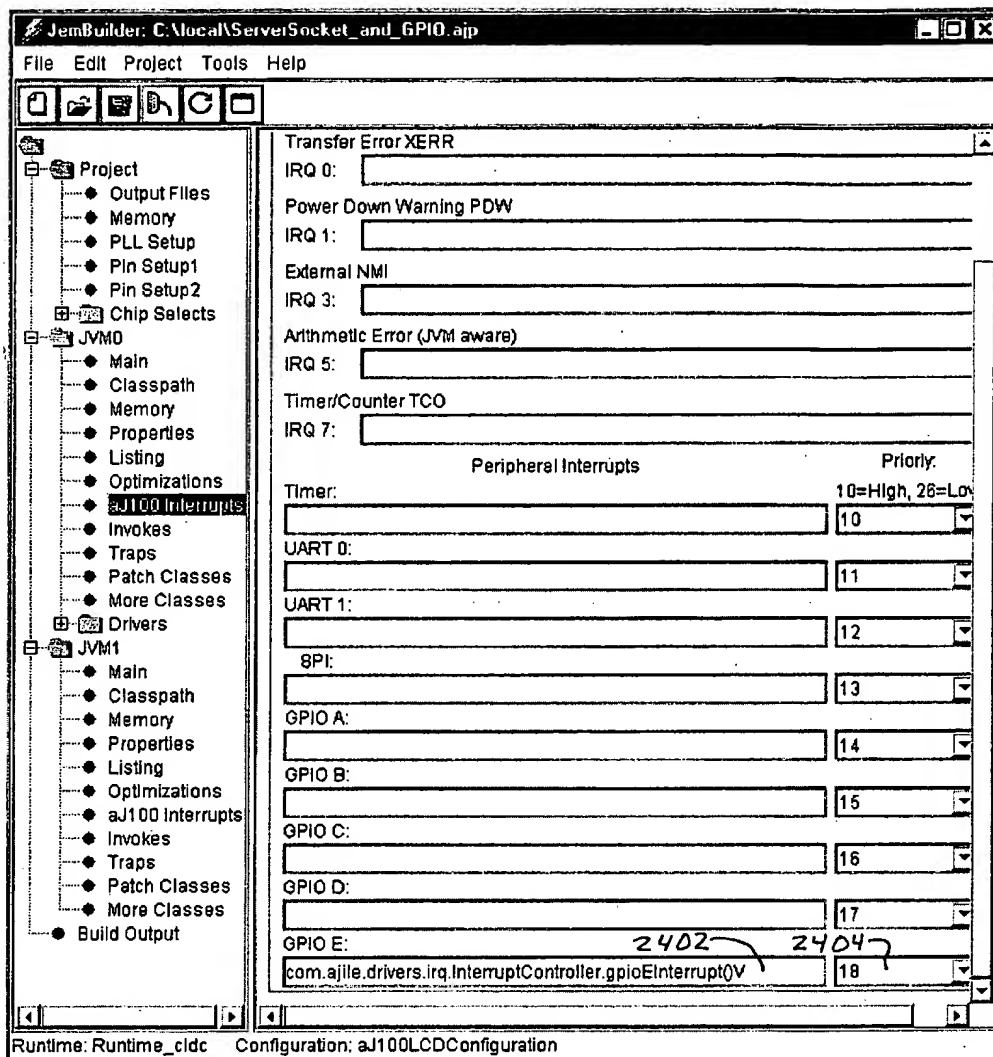


Fig. 23

FILED OCT 26 2000



2400

2406

Fig. 24

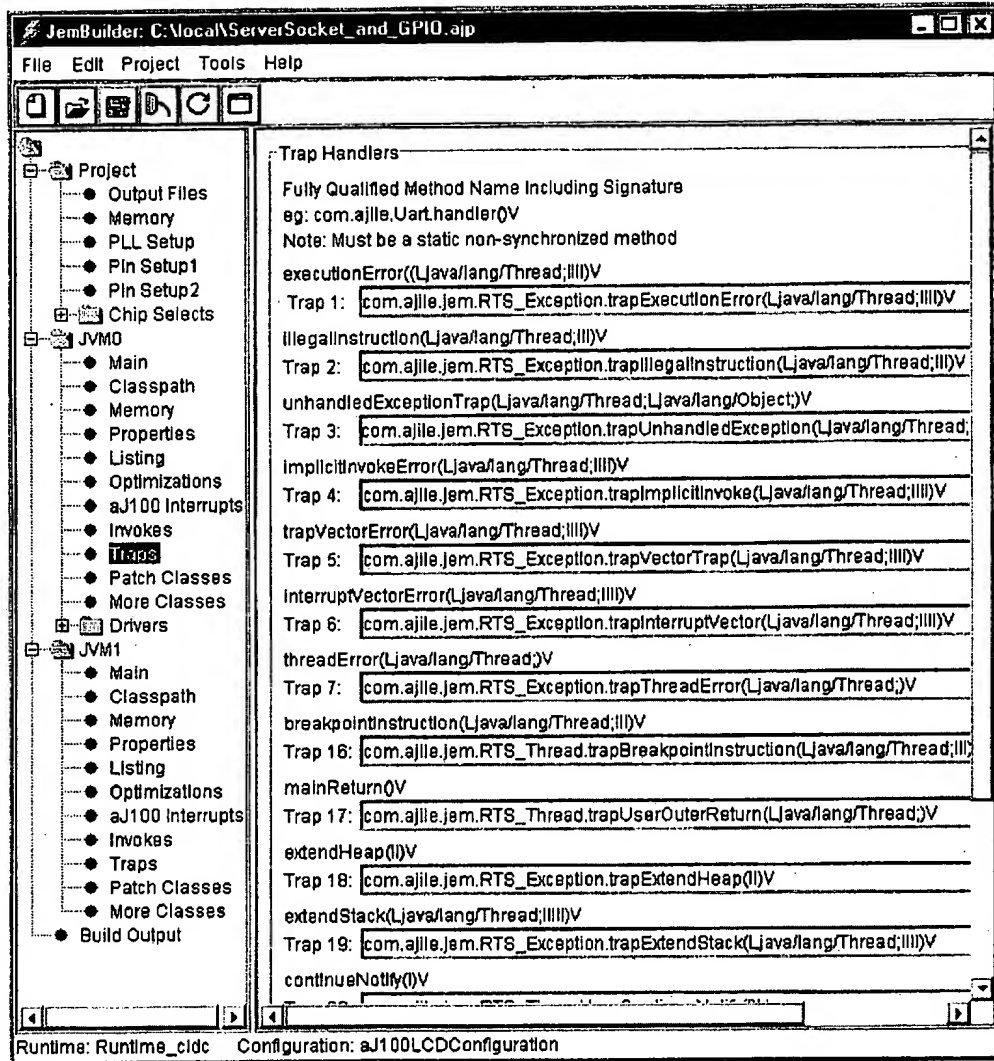


Fig. 26

20060212 14:28:50

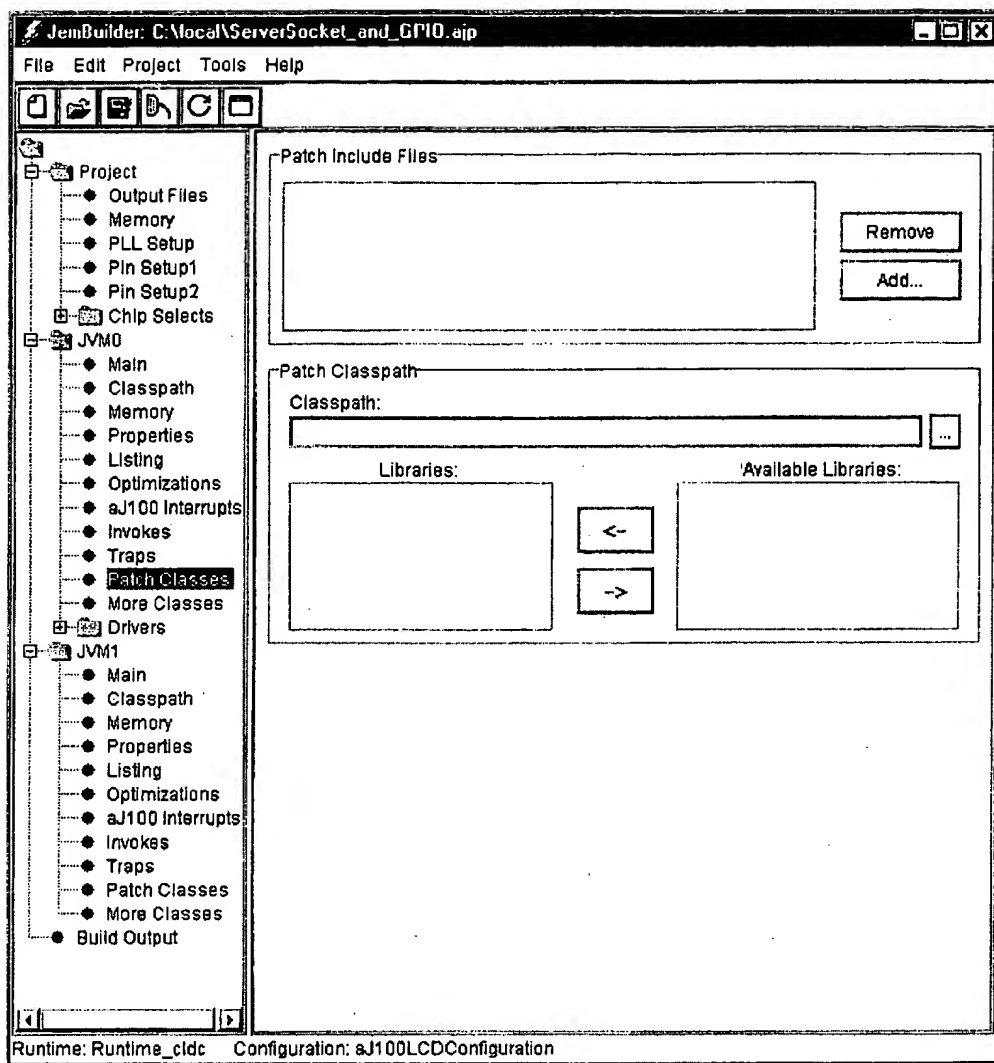


Fig. 27

JemBuilder: C:\local\ServerSocket_and_GPIO.ajp

File Edit Project Tools Help

Project

- Output Files
- Memory
- PLL Setup
- Pin Setup1
- Pin Setup2
- Chip Selects

JVM0

- Main
- Classpath
- Memory
- Properties
- Listing
- Optimizations
- aJ100 Interrupts
- Invokes
- Traps
- Patch Classes
- More Classes

Drivers

JVM1

- Main
- Classpath
- Memory
- Properties
- Listing
- Optimizations
- aJ100 Interrupts
- Invokes
- Traps
- Patch Classes
- More Classes

Build Output

Include Classes In Link

Fully Qualified Class Name To Add (eg com.ajlle.Example.Test1):

Add

Remove

Exclude Classes From Link

Fully Qualified Class Name To Exclude (eg com.ajlle.Example.Omit):

Add

Remove

Runtime: Runtime_cldc Configuration: aJ100LCDConfiguration

Fig. 28

095624 095624 095624

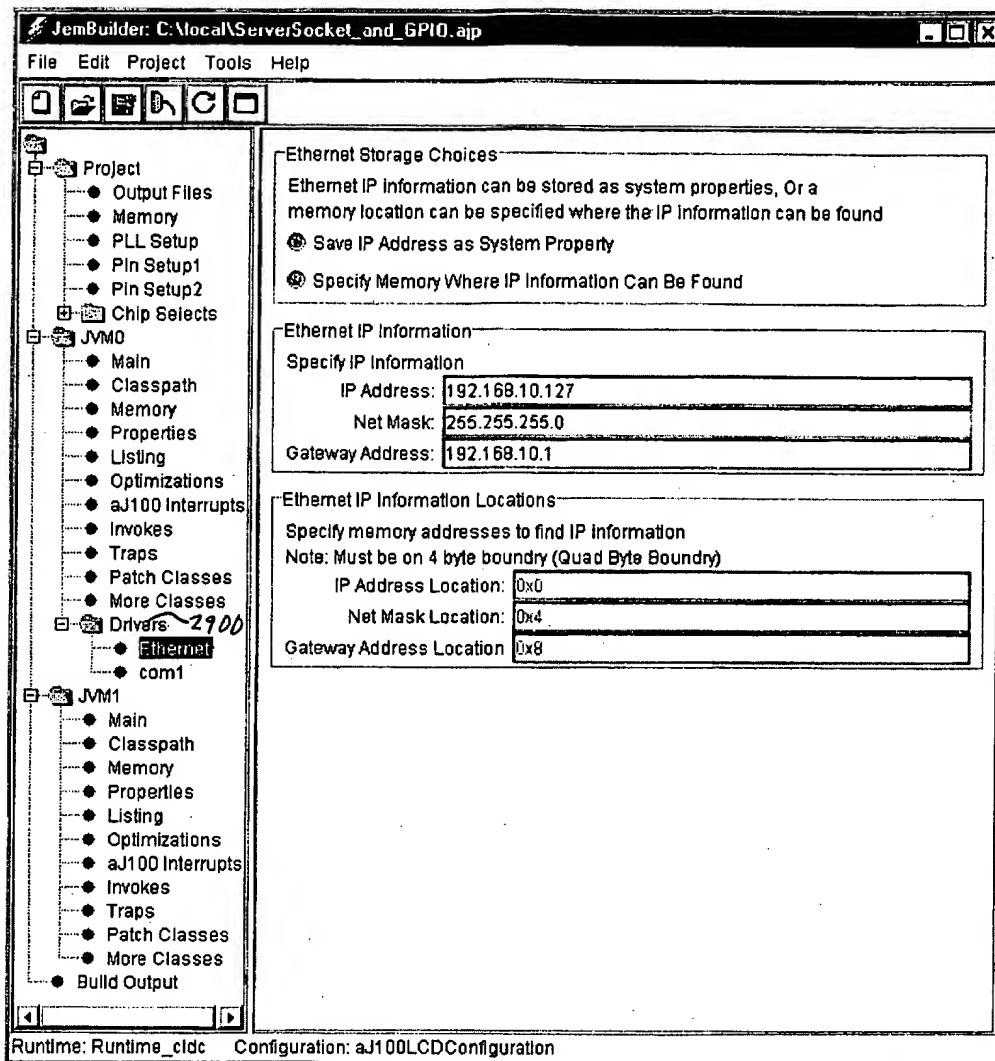


Fig. 29

The screenshot shows the JemBuilder IDE interface. On the left is the Project Explorer, and on the right is the Interrupt Handlers configuration panel.

Project Explorer:

- Project
 - Output Files
 - Memory
 - PLL Setup
 - Pin Setup1
 - Pin Setup2
 - Chp Selects
- JVM0
 - Main
 - Classpath
 - Memory
 - Properties
 - Listing
 - Optimizations
 - aj100 Interrupts
 - Invokes
 - Traps
 - Patch Classes
 - More Classes
- Drivers
 - Ethernet
 - com1
- JVM1
 - Main
 - Classpath
 - Memory
 - Properties
 - Listing
 - Optimizations
 - aj100 Interrupts
 - Invokes
 - Traps
 - Patch Classes
 - More Classes
- Build Output

Interrupt Handlers:

Fully Qualified Method Name Including Signature
eg: com.ajile.Uart.handlerQV
Note: Must be a static non-synchronized method with QV signature

Transfer Error XERR

IRQ 0:

Power Down Warning PDW

IRQ 1:

External NMI

IRQ 3:

Arithmetic Error (JVM aware)

IRQ 5:

Timer/Counter TCO

IRQ 7:

Peripheral Interrupts

Timer:	Priority:
<input type="text"/>	10=High, 26=Low
UART 0: <input type="text"/>	10
UART 1: <input type="text"/>	11
SPI: <input type="text"/>	12
GPIO A: <input type="text"/>	13
com.ajile.drivers irq.InterruptController.gpioInterruptQV	14
GPIO B: <input type="text"/>	15
GPIO C: <input type="text"/>	16

Runtime: Runtime_cldc Configuration: aj100LCDConfiguration

Fig. 31